LABORATORY REPORT

February 10, 2012

Tim Pool
Aquaterra Environmental Solutions, Inc.
13 Executive Dr., Suite 1
Fairview Heights, IL 62208

RE: Cottonwood Hills Flare Gas Sample / 4733.11

Dear Tim:

Enclosed are the results of the samples submitted to our laboratory on January 31, 2012. For your reference, these analyses have been assigned our service request number P1200364.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.caslab.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

Columbia Analytical Services, Inc. is certified by the California Department of Health Services, NELAP Laboratory Certificate No. 02115CA; Arizona Department of Health Services, Certificate No. AZ0694; Florida Department of Health, NELAP Certification E871020; New Jersey Department of Environmental Protection, NELAP Laboratory Certification ID #CA009; New York State Department of Health, NELAP NY Lab ID No: 11221; Oregon Environmental Laboratory Accreditation Program, NELAP ID: CA20007; The American Industrial Hygiene Association, Laboratory #101661; United States Department of Defense Environmental Laboratory Accreditation Program (DoD-ELAP), Certificate No. L10-3-R2; Pennsylvania Registration No. 68-03307; TX Commission of Environmental Quality, NELAP ID T104704413-11-2; Minnesota Department of Health, NELAP Certificate No. 362188; Washington State Department of Ecology, ELAP Lab ID: C946, State of Utah Department of Health, NELAP Certificate No. CA015272011-1; Los Angeles Department of Building and Safety, Approval No: TA00001. Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact me for information corresponding to a particular certification.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

Columbia Analytical Services, Inc.

Digitally signed by Sue Anderson
Date: 2012.02.10 18:48:43 -08'00'

Sue Anderson
Project Manager

Client: Aquaterra Environmental Solutions, Inc. CAS Project No: P1200364
Project: Cottonwood Hills Flare Gas Sample / 4733.11

CASE NARRATIVE

The samples were received intact under chain of custody on January 31, 2012 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

BTU and CHONS Analysis

The results for BTU and CHONS were generated according to ASTM D 3588-98. The following analyses were performed and used to calculate the BTU and CHONS results.

C2 through C6 Hydrocarbon Analysis

The samples were analyzed according to modified EPA Method TO-3 for C2 through >C6 hydrocarbons using a gas chromatograph equipped with a flame ionization detector (FID).

Fixed Gases Analysis

The samples were also analyzed for fixed gases (hydrogen, oxygen/argon, nitrogen, carbon monoxide, methane and carbon dioxide) according to modified EPA Method 3C (single injection) using a gas chromatograph equipped with a thermal conductivity detector (TCD).

Hydrogen Sulfide Analysis

The samples were also analyzed for hydrogen sulfide per ASTM D 5504-08 using a gas chromatograph equipped with a sulfur chemiluminescence detector (SCD).

Total Gaseous Non-Methane Organics as Methane Analysis

The samples were analyzed for total gaseous non-methane organics as methane according to modified EPA Method 25C. The analyses included a single sample injection (method modification) analyzed by gas chromatography using flame ionization detection/total combustion analysis.

DETAIL SUMMARY REPORT

Client: Aquaterra Environmental Solutions, Inc.
Service Request: P1200364
Project ID: Cottonwood Hills Flare Gas Sample / 4733.11

Date Received: 1/31/2012
Time Received: 09:10

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	TO-3 Modified - C1C6+ Can	3C Modified - Fxd Gases Can	ASTM D5504-01 - H2S Can	25C Modified - TGNMO+ 1X Can
CWH-4	P1200364-001	Air	1/26/2012	12:15	1SC00804	-0.24	6.60	X	X	X	X
CWH-5	P1200364-002	Air	1/26/2012	12:30	1SC00766	0.03	5.81	X	X	X	X
CWH-6	P1200364-003	Air	1/26/2012	12:46	1SC00722	0.01	6.42	X	X	X	X

Columbia Analytical Services

Air - Chain of Custody Record & Analytical Service Request

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2655 Park Center Drive, Suite A
Simi Valley, California 93065
Phone (805) 526-7161
Fax (805) 526-7270

Requested Turnaround Time in Business Days (Surcharges) please circle
1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day-Standard

CAS Project No. P1200364

CAS Contact:

Company Name & Address (Reporting Information): Aquaterra Environmental Solutions Inc, 13 Executive Dr. Suite 1, Fairview Heights IL 62208

Project Name: Cottonwood Hills Flare Gas Sample

Project Number: 4733.11

Project Manager: Tim Pool

P.O. # / Billing Information:

Phone: 618-628-2001

Fax: 618-628-2002

Email Address for Result Reporting: tpool@aquaterra-env.com

Sampler (Print & Sign): Tim Pool

Analysis Method

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume	ASTM D3588 Heating value	NMOC EPA 25C other EPA 3C/TO-3	Comments e.g. Actual Preservative or specific instructions
CVH-4	1 -0.40	1-26-12	1215	15600804	909569	-29	-3	1L	X	X	
CVH-5	2 -0.11	1-26-12	1230	15600766	909569	-27	-2	1L	X	X	
CVH-6	3 -0.09	1-26-12	1246	1500722	496702	-28	-2	1L	X	X	

Report Tier Levels - please select
Tier I - Results (Default if not specified) X
Tier II (Results + QC Summaries) ____
Tier III (Results + QC & Calibration Summaries) ____
Tier IV (Data Validation Package) 10% Surcharge ____

EDD required Yes / No
Type: ____________

Project Requirements (MRLs, QAPP)

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
[signature]	1-26-12	1400	[signature]	1/31/12	0910

Cooler / Blank Temperature ____°C

COC AIR REV 3-11

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Sample Acceptance Check Form

Client: Aquaterra Environmental Solutions, Inc. Work order: P1200364

Project: Cottonwood Hills Flare Gas Sample / 4733.11

Sample(s) received on: 1/31/12 Date opened: 1/31/12 by: MZAMORA

Note: This form is used forall samples received by CAS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

		Yes	No	N/A
1	Were **sample containers** properly marked with client sample ID?	☒	☐	☐
2	Container(s) **supplied by CAS**?	☒	☐	☐
3	Did **sample containers** arrive in good condition?	☒	☐	☐
4	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
5	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
6	Was **sample volume** received adequate for analysis?	☒	☐	☐
7	Are samples within specified holding times?	☒	☐	☐
8	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
9	Was a **trip blank** received?	☐	☒	☐
10	Were **custody seals** on outside of cooler/Box?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
	Were custody seals on outside of sample container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
11	Do containers have appropriate **preservation**, according to method/SOP or Client specified information?	☐	☐	☒
	Is there a client indication that the submitted samples are **pH** preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
12	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
	Do they contain moisture?	☐	☐	☒
13	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1200364-001.01	1.0 L Source Can					
P1200364-002.01	1.0 L Source Can					
P1200364-003.01	1.0 L Source Can					

Explain any discrepancies: (include lab sample ID numbers): _____

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

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RESULTS OF ANALYSIS

Client: **Aquaterra Environmental Solutions, Inc.**
Client Sample ID: **CWH-4** CAS Project ID: P1200364
Client Project ID: **Cottonwood Hills Flare Gas Sample / 4733.11** CAS Sample ID: P1200364-001

Test Code: ASTM D3588-98
Analyst: Dante Munoz-Castaneda/Lauryn Keeler Date Collected: 1/26/12
Sampling Media: 1.0 L Summa Canister Date Received: 1/31/12
Test Notes:
Container ID: 1SC00804

Initial Pressure (psig): -0.24 Final Pressure (psig): 6.60

Canister Dilution Factor: 1.47

Components	Result Volume %	Result Weight %	Data Qualifier
Hydrogen	**0.76**	**0.06**	
Oxygen + Argon	**1.68**	**1.96**	
Nitrogen	**11.33**	**11.59**	
Carbon Monoxide	< 0.01	< 0.01	
Methane	**51.17**	**29.98**	
Carbon Dioxide	**35.03**	**56.32**	
Hydrogen Sulfide	< 0.01	< 0.01	
Ethane	< 0.01	< 0.01	
Propane	< 0.01	< 0.01	
Butanes	< 0.01	< 0.01	
Pentanes	< 0.01	**0.01**	
Hexanes	< 0.01	**0.01**	
> Hexanes	< 0.01	**0.04**	
TOTALS	**99.99**	**99.99**	

Components	Mole %	Weight %
Carbon	**22.19**	**37.88**
Hydrogen	**53.11**	**7.61**
Oxygen + Argon	**18.88**	**42.92**
Nitrogen	**5.83**	**11.60**
Sulfur	< 0.10	< 0.10

Specific Gravity (Air = 1)		**0.9451**
Specific Volume	ft3/lb	**13.86**
Gross Heating Value (Dry Gas @ 60 F, 14.696 psia)	BTU/ft3	**521.9**
Net Heating Value (Dry Gas @ 60 F, 14.696 psia)	BTU/ft3	**469.8**
Gross Heating Value (Water Saturated at 0.25636 psia)	BTU/ft3	**511.4**
Net Heating Value (Water Saturated at 0.25636 psia)	BTU/ft3	**460.4**
Gross Heating Value (Dry Gas @ 60 F, 14.696 psia)	BTU/lb	**7,235.3**
Net Heating Value (Dry Gas @ 60 F, 14.696 psia)	BTU/lb	**6,513.1**
Compressibility Factor "Z" (60 F, 14.696 psia)		**0.9973**

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RESULTS OF ANALYSIS

Client: **Aquaterra Environmental Solutions, Inc.**
Client Sample ID: **CWH-5** CAS Project ID: P1200364
Client Project ID: **Cottonwood Hills Flare Gas Sample / 4733.11** CAS Sample ID: P1200364-002

Test Code: ASTM D3588-98
Analyst: Dante Munoz-Castaneda/Lauryn Keeler Date Collected: 1/26/12
Sampling Media: 1.0 L Summa Canister Date Received: 1/31/12
Test Notes:
Container ID: 1SC00766

Initial Pressure (psig): 0.03 Final Pressure (psig): 5.81

Canister Dilution Factor: 1.39

Components	Result Volume %	Result Weight %	Data Qualifier
Hydrogen	**0.82**	**0.06**	
Oxygen + Argon	**0.74**	**0.87**	
Nitrogen	**8.11**	**8.31**	
Carbon Monoxide	< 0.01	< 0.01	
Methane	**53.50**	**31.40**	
Carbon Dioxide	**36.77**	**59.21**	
Hydrogen Sulfide	< 0.01	< 0.01	
Ethane	< 0.01	< 0.01	
Propane	< 0.01	< 0.01	
Butanes	< 0.01	< 0.01	
Pentanes	< 0.01	**0.02**	
Hexanes	< 0.01	**0.02**	
> Hexanes	**0.02**	**0.08**	
TOTALS	**99.99**	**99.99**	

Components	Mole %	Weight %
Carbon	**22.73**	**39.77**
Hydrogen	**54.34**	**7.98**
Oxygen + Argon	**18.85**	**43.94**
Nitrogen	**4.08**	**8.32**
Sulfur	< 0.10	< 0.10

Specific Gravity (Air = 1)		**0.9437**
Specific Volume	ft3/lb	**13.88**
Gross Heating Value (Dry Gas @ 60 F, 14.696 psia)	BTU/ft3	**546.7**
Net Heating Value (Dry Gas @ 60 F, 14.696 psia)	BTU/ft3	**492.2**
Gross Heating Value (Water Saturated at 0.25636 psia)	BTU/ft3	**535.7**
Net Heating Value (Water Saturated at 0.25636 psia)	BTU/ft3	**482.2**
Gross Heating Value (Dry Gas @ 60 F, 14.696 psia)	BTU/lb	**7,591.0**
Net Heating Value (Dry Gas @ 60 F, 14.696 psia)	BTU/lb	**6,833.6**
Compressibility Factor "Z" (60 F, 14.696 psia)		**0.9972**

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RESULTS OF ANALYSIS

Client: **Aquaterra Environmental Solutions, Inc.**
Client Sample ID: **CWH-6** CAS Project ID: P1200364
Client Project ID: **Cottonwood Hills Flare Gas Sample / 4733.11** CAS Sample ID: P1200364-003

Test Code: ASTM D3588-98
Analyst: Dante Munoz-Castaneda/Lauryn Keeler Date Collected: 1/26/12
Sampling Media: 1.0 L Summa Canister Date Received: 1/31/12
Test Notes:
Container ID: 1SC00722

Initial Pressure (psig): 0.01 Final Pressure (psig): 6.42

Canister Dilution Factor: 1.44

Components	Result Volume %	Result Weight %	Data Qualifier
Hydrogen	**0.79**	**0.06**	
Oxygen + Argon	**1.31**	**1.53**	
Nitrogen	**10.11**	**10.34**	
Carbon Monoxide	< 0.01	< 0.01	
Methane	**52.03**	**30.50**	
Carbon Dioxide	**35.71**	**57.43**	
Hydrogen Sulfide	< 0.01	< 0.01	
Ethane	< 0.01	< 0.01	
Propane	< 0.01	< 0.01	
Butanes	< 0.01	< 0.01	
Pentanes	< 0.01	**0.02**	
Hexanes	< 0.01	**0.02**	
> Hexanes	**0.02**	**0.07**	
TOTALS	**99.99**	**99.99**	

Components	Mole %	Weight %
Carbon	**22.40**	**38.60**
Hydrogen	**53.58**	**7.75**
Oxygen + Argon	**18.87**	**43.30**
Nitrogen	**5.15**	**10.35**
Sulfur	< 0.10	< 0.10

Specific Gravity (Air = 1)		**0.9448**
Specific Volume	ft3/lb	**13.87**
Gross Heating Value (Dry Gas @ 60 F, 14.696 psia)	BTU/ft3	**531.4**
Net Heating Value (Dry Gas @ 60 F, 14.696 psia)	BTU/ft3	**478.4**
Gross Heating Value (Water Saturated at 0.25636 psia)	BTU/ft3	**520.7**
Net Heating Value (Water Saturated at 0.25636 psia)	BTU/ft3	**468.8**
Gross Heating Value (Dry Gas @ 60 F, 14.696 psia)	BTU/lb	**7,369.7**
Net Heating Value (Dry Gas @ 60 F, 14.696 psia)	BTU/lb	**6,634.3**
Compressibility Factor "Z" (60 F, 14.696 psia)		**0.9973**

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RESULTS OF ANALYSIS

Client: **Aquaterra Environmental Solutions, Inc.**
Client Sample ID: **CWH-4** CAS Project ID: P1200364
Client Project ID: **Cottonwood Hills Flare Gas Sample / 4733.11** CAS Sample ID: P1200364-001

Test Code: EPA Method 3C Modified
Instrument ID: HP5890 II/GC1/TCD
Analyst: Dante Munoz-Castaneda
Sampling Media: 1.0 L Summa Canister
Test Notes:
Container ID: 1SC00804

Date Collected: 1/26/12
Date Received: 1/31/12
Date Analyzed: 2/3/12
Volume(s) Analyzed: 0.10 ml(s)

Initial Pressure (psig): -0.24 Final Pressure (psig): 6.60

Canister Dilution Factor: 1.47

CAS #	Compound	Result %, v/v	MRL %, v/v	Data Qualifier
1333-74-0	**Hydrogen**	**0.765**	0.15	
7782-44-7	**Oxygen +**			
7440-37-1	**Argon**	**1.68**	0.15	
7727-37-9	**Nitrogen**	**11.3**	0.15	
630-08-0	Carbon Monoxide	ND	0.15	
74-82-8	**Methane**	**51.2**	0.15	
124-38-9	**Carbon Dioxide**	**35.0**	0.15	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

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RESULTS OF ANALYSIS

Client: **Aquaterra Environmental Solutions, Inc.**
Client Sample ID: **CWH-5** CAS Project ID: P1200364
Client Project ID: **Cottonwood Hills Flare Gas Sample / 4733.11** CAS Sample ID: P1200364-002

Test Code: EPA Method 3C Modified
Instrument ID: HP5890 II/GC1/TCD
Analyst: Dante Munoz-Castaneda
Sampling Media: 1.0 L Summa Canister
Test Notes:
Container ID: 1SC00766

Date Collected: 1/26/12
Date Received: 1/31/12
Date Analyzed: 2/3/12
Volume(s) Analyzed: 0.10 ml(s)

Initial Pressure (psig): 0.03 Final Pressure (psig): 5.81

Canister Dilution Factor: 1.39

CAS #	Compound	Result %, v/v	MRL %, v/v	Data Qualifier
1333-74-0	**Hydrogen**	**0.820**	0.14	
7782-44-7	**Oxygen +**			
7440-37-1	**Argon**	**0.741**	0.14	
7727-37-9	**Nitrogen**	**8.11**	0.14	
630-08-0	Carbon Monoxide	ND	0.14	
74-82-8	**Methane**	**53.5**	0.14	
124-38-9	**Carbon Dioxide**	**36.8**	0.14	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

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RESULTS OF ANALYSIS

Client: **Aquaterra Environmental Solutions, Inc.**
Client Sample ID: **CWH-6** CAS Project ID: P1200364
Client Project ID: **Cottonwood Hills Flare Gas Sample / 4733.11** CAS Sample ID: P1200364-003

Test Code: EPA Method 3C Modified
Instrument ID: HP5890 II/GC1/TCD
Analyst: Dante Munoz-Castaneda
Sampling Media: 1.0 L Summa Canister
Test Notes:
Container ID: 1SC00722

Date Collected: 1/26/12
Date Received: 1/31/12
Date Analyzed: 2/3/12
Volume(s) Analyzed: 0.10 ml(s)

Initial Pressure (psig): 0.01 Final Pressure (psig): 6.42

Canister Dilution Factor: 1.44

CAS #	Compound	Result %, v/v	MRL %, v/v	Data Qualifier
1333-74-0	**Hydrogen**	**0.794**	0.14	
7782-44-7	**Oxygen +**			
7440-37-1	**Argon**	**1.31**	0.14	
7727-37-9	**Nitrogen**	**10.1**	0.14	
630-08-0	Carbon Monoxide	ND	0.14	
74-82-8	**Methane**	**52.0**	0.14	
124-38-9	**Carbon Dioxide**	**35.7**	0.14	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

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RESULTS OF ANALYSIS

Client: **Aquaterra Environmental Solutions, Inc.**
Client Sample ID: **Method Blank** CAS Project ID: P1200364
Client Project ID: **Cottonwood Hills Flare Gas Sample / 4733.11** CAS Sample ID: P120203-MB

Test Code: EPA Method 3C Modified Date Collected: NA
Instrument ID: HP5890 II/GC1/TCD Date Received: NA
Analyst: Dante Munoz-Castaneda Date Analyzed: 2/03/12
Sampling Media: 1.0 L Summa Canister Volume(s) Analyzed: 0.10 ml(s)
Test Notes:

CAS #	Compound	Result %, v/v	MRL %, v/v	Data Qualifier
1333-74-0	Hydrogen	ND	0.10	
7782-44-7	Oxygen +			
7440-37-1	Argon	ND	0.10	
7727-37-9	Nitrogen	ND	0.10	
630-08-0	Carbon Monoxide	ND	0.10	
74-82-8	Methane	ND	0.10	
124-38-9	Carbon Dioxide	ND	0.10	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Aquaterra Environmental Solutions, Inc.**
Client Sample ID: **Lab Control Sample** CAS Project ID: P1200364
Client Project ID: **Cottonwood Hills Flare Gas Sample / 4733.11** CAS Sample ID: P120203-LCS

Test Code: EPA Method 3C Modified Date Collected: NA
Instrument ID: HP5890 II/GC1/TCD Date Received: NA
Analyst: Dante Munoz-Castaneda Date Analyzed: 2/03/12
Sampling Media: 1.0 L Summa Canister Volume(s) Analyzed: NA ml(s)
Test Notes:

CAS #	Compound	Spike Amount ppmV	Result ppmV	% Recovery	CAS Acceptance Limits	Data Qualifier
1333-74-0	Hydrogen	40,300	**38,500**	**96**	83-122	
7782-44-7	Oxygen +					
7440-37-1	Argon	50,000	**49,800**	**100**	74-132	
7727-37-9	Nitrogen	49,800	**51,200**	**103**	76-126	
630-08-0	Carbon Monoxide	49,900	**50,500**	**101**	84-113	
74-82-8	Methane	40,300	**41,700**	**103**	84-113	
124-38-9	Carbon Dioxide	50,000	**50,200**	**100**	87-117	

RESULTS OF ANALYSIS

Client: **Aquaterra Environmental Solutions, Inc.**
Client Project ID: **Cottonwood Hills Flare Gas Sample / 4733.11** CAS Project ID: P1200364

Total Gaseous Nonmethane Organics (TGNMO) as Methane

Test Code: EPA Method 25C Modified
Instrument ID: HP5890 II/GC1/FID/TCA
Analyst: Lauryn Keeler
Sampling Media: 1.0 L Summa Canister(s)
Test Notes:

Date(s) Collected: 1/26/12
Date Received: 1/31/12
Date Analyzed: 2/2 - 2/10/12

Client Sample ID	CAS Sample ID	Canister Dilution Factor	Injection Volume ml(s)	Result ppmV	MRL ppmV	Data Qualifier
CWH-4	P1200364-001	1.47	0.50	**3,600**	1.5	
CWH-5	P1200364-002	1.39	0.50	**4,800**	1.4	
CWH-6	P1200364-003	1.44	0.50	**4,500**	1.4	
Method Blank	P120202-MB	1.00	0.50	ND	1.0	
Method Blank	P120210-MB	1.00	0.50	ND	1.0	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Aquaterra Environmental Solutions, Inc.**
Client Sample ID: **Lab Control Sample** CAS Project ID: P1200364
Client Project ID: **Cottonwood Hills Flare Gas Sample / 4733.11** CAS Sample ID: P120202-LCS

Test Code: EPA Method 25C Modified Date Collected: NA
Instrument ID: HP5890 II/GC1/FID/TCA Date Received: NA
Analyst: Lauryn Keeler Date Analyzed: 2/02/12
Sampling Media: 1.0 L Summa Canister Volume(s) Analyzed: NA ml(s)
Test Notes:

Compound	Spike Amount ppmV	Result ppmV	% Recovery	CAS Acceptance Limits	Data Qualifier
Total Gaseous Nonmethane Organics (TGNMO) as Methane	98.8	**118**	**119**	71-136	

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Aquaterra Environmental Solutions, Inc.**
Client Sample ID: **Lab Control Sample** CAS Project ID: P1200364
Client Project ID: **Cottonwood Hills Flare Gas Sample / 4733.11** CAS Sample ID: P120210-LCS

Test Code: EPA Method 25C Modified Date Collected: NA
Instrument ID: HP5890 II/GC1/FID/TCA Date Received: NA
Analyst: Dante Munoz-Castaneda Date Analyzed: 2/10/12
Sampling Media: 1.0 L Summa Canister Volume(s) Analyzed: NA ml(s)
Test Notes:

Compound	Spike Amount ppmV	Result ppmV	% Recovery	CAS Acceptance Limits	Data Qualifier
Total Gaseous Nonmethane Organics (TGNMO) as Methane	98.8	**114**	**115**	71-136	